

Table J2. - Chemical Properties of the Soils

City of Suffolk, Virginia

Absence of an entry indicates that data were not estimated.

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
1B:								
Alaga	0-9	1.6-9.8	1.2-7.3	4.5 - 6.0	---	---	---	---
	9-80	0.5-3.0	0.4-2.3	4.5 - 6.0	---	---	---	---
Pactolus	---	---	---	---	---	---	---	---
2:								
Belhaven	0-44	68-180	51-135	3.5 - 5.5	---	---	---	---
	44-62	3.6-16	2.7-12	3.5 - 6.5	---	---	---	---
Pungo	---	---	---	---	---	---	---	---
Deloss	---	---	---	---	---	---	---	---
3:								
Bohicket	0-13	11-33	8.4-24	6.1 - 8.4	---	---	8.0-16.0	40-55
	13-60	11-22	8.3-16	6.1 - 8.4	---	---	8.0-16.0	45-55
Kenansville	---	---	---	---	---	---	---	---
Pactolus	---	---	---	---	---	---	---	---
4:								
Deloss	0-17	4.8-13	3.6-9.8	4.5 - 6.5	---	---	---	---
	17-60	4.5-8.8	3.4-6.6	4.5 - 5.5	---	---	---	---
	60-75	0.5-8.8	0.4-6.6	4.5 - 6.0	---	---	---	---
Tomotley	---	---	---	---	---	---	---	---
Belhaven	---	---	---	---	---	---	---	---
5A:								
Dogue	0-16	3.6-8.5	2.7-6.4	3.6 - 5.5	---	---	---	---
	16-63	7.5-15	5.6-11	3.6 - 5.5	---	---	---	---
Emporia	---	---	---	---	---	---	---	---
Eunola	---	---	---	---	---	---	---	---
Wahee	---	---	---	---	---	---	---	---
5B2:								
Dogue	0-16	3.6-8.5	2.7-6.4	3.6 - 5.5	---	---	---	---
	16-63	7.5-15	5.6-11	3.6 - 5.5	---	---	---	---
Emporia	---	---	---	---	---	---	---	---

Table J2. - Chemical Properties of the Soils - Continued

City of Suffolk, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
5B2:								
Eunola	---	---	---	---	---	---	---	---
Wahee	---	---	---	---	---	---	---	---
6:								
Dragston	0-9	4.2-7.5	3.2-5.6	4.5 - 5.5	---	---	---	---
	9-37	2.0-4.5	1.5-3.4	4.5 - 5.5	---	---	---	---
	37-66	0.5-1.8	0.4-1.3	4.5 - 5.5	---	---	---	---
Tomotley	---	---	---	---	---	---	---	---
Tetotum	---	---	---	---	---	---	---	---
7A:								
Emporia	0-10	2.9-9.0	2.2-6.8	4.5 - 5.5	---	---	---	---
	10-72	4.5-8.8	3.4-6.6	4.5 - 5.5	---	---	---	---
Kenansville	---	---	---	---	---	---	---	---
Nansemond	---	---	---	---	---	---	---	---
7B2:								
Emporia	0-10	2.9-9.0	2.2-6.8	4.5 - 5.5	---	---	---	---
	10-72	4.5-8.8	3.4-6.6	4.5 - 5.5	---	---	---	---
Kenansville	---	---	---	---	---	---	---	---
Nansemond	---	---	---	---	---	---	---	---
8A:								
Eunola	0-9	1.9-7.2	1.4-5.4	4.5 - 5.5	---	---	---	---
	9-63	4.5-8.8	3.4-6.6	4.5 - 5.5	---	---	---	---
Lynchburg	---	---	---	---	---	---	---	---
Suffolk	---	---	---	---	---	---	---	---
8B:								
Eunola	0-9	1.9-7.2	1.4-5.4	4.5 - 5.5	---	---	---	---
	9-63	4.5-8.8	3.4-6.6	4.5 - 5.5	---	---	---	---
Lynchburg	---	---	---	---	---	---	---	---
Suffolk	---	---	---	---	---	---	---	---

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City of Suffolk, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
9A:								
Goldsboro	0-18	2.4-8.2	1.8-6.2	4.5 - 6.0	---	---	---	---
	18-70	4.5-7.5	3.4-5.6	4.5 - 5.5	---	---	---	---
Rains	---	---	---	---	---	---	---	---
9B2:								
Goldsboro	0-18	2.4-8.2	1.8-6.2	4.5 - 6.0	---	---	---	---
	18-70	4.5-7.5	3.4-5.6	4.5 - 5.5	---	---	---	---
Rains	---	---	---	---	---	---	---	---
10A:								
Kalmia	0-22	2.1-7.5	1.6-5.6	4.5 - 6.0	---	---	---	---
	22-34	4.5-8.8	3.4-6.6	4.5 - 5.5	---	---	---	---
	34-72	0.5-2.5	0.4-1.9	4.5 - 5.5	---	---	---	---
Kenansville	---	---	---	---	---	---	---	---
Nansemond	---	---	---	---	---	---	---	---
10B:								
Kalmia	0-22	2.1-7.5	1.6-5.6	4.5 - 6.0	---	---	---	---
	22-34	4.5-8.8	3.4-6.6	4.5 - 5.5	---	---	---	---
	34-72	0.5-2.5	0.4-1.9	4.5 - 5.5	---	---	---	---
Kenansville	---	---	---	---	---	---	---	---
Nansemond	---	---	---	---	---	---	---	---
11:								
Kenansville	0-23	1.9-7.0	1.4-5.2	4.5 - 6.0	---	---	---	---
	23-48	1.2-8.8	0.9-6.6	4.5 - 6.0	---	---	---	---
	48-72	0.2-2.5	0.2-1.9	4.5 - 6.0	---	---	---	---
Eunola	---	---	---	---	---	---	---	---
Pactolus	---	---	---	---	---	---	---	---
Suffolk	---	---	---	---	---	---	---	---
12:								
Kenansville	0-23	1.9-7.0	1.4-5.2	4.5 - 6.0	---	---	---	---
	23-48	1.2-8.8	0.9-6.6	4.5 - 6.0	---	---	---	---
	48-72	0.2-2.5	0.2-1.9	4.5 - 6.0	---	---	---	---
Suffolk	---	---	---	---	---	---	---	---

Table J2. - Chemical Properties of the Soils - Continued

City of Suffolk, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
12: Eunola	---	---	---	---	---	---	---	---
13: Levy	0-10 10-60	18-35 13-33	14-26 9.9-25	3.6 - 5.5 3.6 - 5.5	--- ---	--- ---	0.0-2.0 0.0-2.0	10-20 10-20
Rains	---	---	---	---	---	---	---	---
Nansemond	---	---	---	---	---	---	---	---
14: Lynchburg	0-13 13-63	2.4-16 4.5-8.8	1.8-12 3.4-6.6	3.6 - 5.5 3.6 - 5.5	--- ---	--- ---	--- ---	--- ---
Rains	---	---	---	---	---	---	---	---
Eunola	---	---	---	---	---	---	---	---
Wahee	---	---	---	---	---	---	---	---
15B: Nansemond	0-18 18-29 29-70	2.1-4.8 2.5-6.2 0.5-3.0	1.6-3.6 1.9-4.7 0.4-2.2	4.5 - 5.5 4.5 - 5.5 3.6 - 5.5	--- --- ---	--- --- ---	--- --- ---	--- --- ---
Dragston	---	---	---	---	---	---	---	---
15D: Nansemond	0-18 18-29 29-70	2.1-4.8 2.5-6.2 0.5-3.0	1.6-3.6 1.9-4.7 0.4-2.2	4.5 - 5.5 4.5 - 5.5 3.6 - 5.5	--- --- ---	--- --- ---	--- --- ---	--- --- ---
Rains	---	---	---	---	---	---	---	---
Tomotley	---	---	---	---	---	---	---	---
15E: Nansemond	0-8 18-29 29-70	2.1-4.8 2.5-6.2 0.5-3.0	1.6-3.6 1.9-4.7 0.4-2.2	4.5 - 5.5 4.5 - 5.5 3.6 - 5.5	--- --- ---	--- --- ---	--- --- ---	--- --- ---
Rains	---	---	---	---	---	---	---	---
Tomotley	---	---	---	---	---	---	---	---
16A:								

Table J2. - Chemical Properties of the Soils - Continued

City of Suffolk, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
16A:								
Nansemond	0-8	3.8-8.2	2.8-6.2	4.5 - 5.5	---	---	---	---
	8-29	2.5-6.2	1.9-4.7	4.5 - 5.5	---	---	---	---
	29-70	0.5-3.0	0.4-2.2	3.6 - 5.5	---	---	---	---
Weston	---	---	---	---	---	---	---	---
16B:								
Nansemond	0-8	3.8-8.2	2.8-6.2	4.5 - 5.5	---	---	---	---
	8-29	2.5-6.2	1.9-4.7	4.5 - 5.5	---	---	---	---
	29-70	0.5-3.0	0.4-2.2	3.6 - 5.5	---	---	---	---
Weston	---	---	---	---	---	---	---	---
17:								
Pactolus	0-2	1.6-7.5	1.2-5.6	4.5 - 6.0	---	---	---	---
	2-80	0.5-3.0	0.4-2.2	4.5 - 5.5	---	---	---	---
Alaga	---	---	---	---	---	---	---	---
Dragston	---	---	---	---	---	---	---	---
Kalmia	---	---	---	---	---	---	---	---
18:								
Pungo	0-79	90-204	68-153	3.6 - 5.5	---	---	---	---
Belhaven	---	---	---	---	---	---	---	---
Deloss	---	---	---	---	---	---	---	---
19:								
Rains	0-6	3.5-19	2.6-14	4.5 - 6.5	---	---	---	---
	6-65	4.5-8.8	3.4-6.6	4.5 - 5.5	---	---	---	---
Lynchburg	---	---	---	---	---	---	---	---
Nansemond	---	---	---	---	---	---	---	---
Eunola	---	---	---	---	---	---	---	---
Torhunta	---	---	---	---	---	---	---	---
20A:								
Rumford	0-10	1.6-5.2	1.2-3.9	3.6 - 5.5	---	---	---	---
	10-36	2.0-6.2	1.5-4.7	4.5 - 6.0	---	---	---	---
	36-72	0.5-4.5	0.4-3.4	3.6 - 6.5	---	---	---	---

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Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
20A:								
Nansemond	---	---	---	---	---	---	---	---
20B:								
Rumford	0-10	1.6-5.2	1.2-3.9	3.6 - 5.5	---	---	---	---
	10-36	2.0-6.2	1.5-4.7	4.5 - 6.0	---	---	---	---
	36-72	0.5-4.5	0.4-3.4	3.6 - 6.5	---	---	---	---
Nansemond	---	---	---	---	---	---	---	---
21A:								
State	0-16	2.4-8.2	1.8-6.2	4.5 - 5.5	---	---	---	---
	16-52	4.5-8.5	1.8-6.2	4.5 - 5.5	---	---	---	---
	52-65	0.5-3.8	0.4-2.8	4.5 - 6.0	---	---	---	---
Tetotum	---	---	---	---	---	---	---	---
21B:								
State	0-16	2.4-8.2	1.8-6.2	4.5 - 5.5	---	---	---	---
	16-52	4.5-8.5	1.8-6.2	4.5 - 5.5	---	---	---	---
	52-65	0.5-3.8	0.4-2.8	4.5 - 6.0	---	---	---	---
Tetotum	---	---	---	---	---	---	---	---
22A:								
Suffolk	0-11	2.1-4.8	1.6-3.6	3.6 - 5.5	---	---	---	---
	11-47	2.5-8.2	1.9-6.2	3.6 - 5.5	---	---	---	---
	47-65	1.0-2.5	0.8-1.9	3.6 - 6.0	---	---	---	---
Eunola	---	---	---	---	---	---	---	---
22B:								
Suffolk	0-11	2.1-4.8	1.6-3.6	3.6 - 5.5	---	---	---	---
	11-47	2.5-8.2	1.9-6.2	3.6 - 5.5	---	---	---	---
	47-65	1.0-2.5	0.8-1.9	3.6 - 6.0	---	---	---	---
Eunola	---	---	---	---	---	---	---	---
23A:								
Tetotum	0-11	2.4-8.2	1.8-6.2	3.6 - 5.5	---	---	---	---
	11-65	4.5-8.8	3.4-6.6	3.6 - 5.5	---	---	---	---
	65-85	0.5-7.5	0.4-5.6	3.6 - 5.5	---	---	---	---
State	---	---	---	---	---	---	---	---
Tomotley	---	---	---	---	---	---	---	---

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Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
23B:								
Tetotum	0-11	2.4-8.2	1.8-6.2	3.6 - 5.5	---	---	---	---
	11-65	4.5-8.8	3.4-6.6	3.6 - 5.5	---	---	---	---
	65-85	0.5-7.5	0.4-5.6	3.6 - 5.5	---	---	---	---
Dragston	---	---	---	---	---	---	---	---
State	---	---	---	---	---	---	---	---
24:								
Tomotley	0-7	3.5-16	2.6-12	3.6 - 5.5	---	---	---	---
	7-43	4.5-8.8	3.4-6.6	3.6 - 5.5	---	---	---	---
	43-61	0.5-8.8	0.4-6.6	3.6 - 5.5	---	---	---	---
Deloss	---	---	---	---	---	---	---	---
Dragston	---	---	---	---	---	---	---	---
Rains	---	---	---	---	---	---	---	---
25:								
Torhunta	0-16	3.5-18	2.6-14	3.6 - 5.5	---	---	---	---
	16-30	1.2-4.5	0.9-3.4	3.6 - 5.5	---	---	---	---
	30-65	0.5-4.5	0.4-3.4	3.6 - 5.5	---	---	---	---
Belhaven	---	---	---	---	---	---	---	---
26:								
Udorthents	---	---	---	---	---	---	---	---
Eunola	---	---	---	---	---	---	---	---
Kenansville	---	---	---	---	---	---	---	---
Lynchburg	---	---	---	---	---	---	---	---
Nansemond	---	---	---	---	---	---	---	---
Suffolk	---	---	---	---	---	---	---	---
Tomotley	---	---	---	---	---	---	---	---
27:								
Urban land	---	---	---	---	---	---	---	---
Dogue	---	---	---	---	---	---	---	---

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Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
28:								
Wahee	0-9	3.6-18	2.7-14	4.5 - 5.5	---	---	---	---
	9-46	8.8-15	6.6-11	4.5 - 5.5	---	---	---	---
	46-62	2.5-8.8	1.9-6.6	4.5 - 5.5	---	---	---	---
Dogue	---	---	---	---	---	---	---	---
Emporia	---	---	---	---	---	---	---	---
Tomotley	---	---	---	---	---	---	---	---
29:								
Weston	0-8	3.5-11	2.6-7.9	4.5 - 6.0	---	---	---	---
	8-39	1.2-4.5	0.9-3.4	4.5 - 6.0	---	---	---	---
	39-62	0.5-3.0	0.4-2.2	4.5 - 6.0	---	---	---	---
Nansemond	---	---	---	---	---	---	---	---
DAM:								
Dam	---	---	---	---	---	---	---	---
M-W:								
Water	---	---	---	---	---	---	---	---
W:								
Water	---	---	---	---	---	---	---	---